

Résultats de symétrie pour des équations non locales semi-linéaires et quasi-linéaires/Symmetry results for semi-linear and quasilinear nonlocal equations

vendredi 27 avril 2018 14:00 (1 heure)

Motivated by a conjecture of De Giorgi on the Allen-Cahn Equation and classification results for some its solutions, we will describe recent results related to one-dimensional symmetry for solutions of nonlocal equations involving possibly nonlinear nonlocal operators. We will concentrate mainly in low dimensions and present several ways to attack this problem. We will then describe open problems and links with nonlocal minimal surfaces. This is based on joint works with X. Cabre (UPC, Barcelona), E. Valdinoci (Universita di Milano) and M. Fazly (UT San Antonio, USA).

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